

Math Problem

To solve for $f(-2 - g(3))$, we need to follow these steps:

1. **Calculate $g(3)$:**

$$g(x) = x^2 - 3$$

Substituting $x = 3$:

$$g(3) = 3^2 - 3 = 9 - 3 = 6$$

2. **Calculate $-2 - g(3)$:**

$$-2 - g(3) = -2 - 6 = -8$$

3. **Calculate $f(-8)$:**

$$f(x) = \frac{3}{4}x + 10$$

Substituting $x = -8$:

$$f(-8) = \frac{3}{4}(-8) + 10 = -6 + 10 = 4$$

Thus, the value of $f(-2 - g(3))$ is:

$$\boxed{4}$$